```
RESULT 2
S74981
glucose dehydrogenase-B - Synechocystis sp. (strain PCC 6803)
N; Alternate names: protein slr1608
C; Species: Synechocystis sp.
A; Variety: PCC 6803
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
C; Accession: S74981
R;Kaneko, T.; Sato, S.; Kotani, H.; Tanaka, A.; Asamizu, E.; Nakamura, Y.; Miyajima, N
DNA Res. 3, 109-136, 1996
A; Title: Sequence analysis of the genome of the unicellular cyanobacterium Synechocyst
A; Reference number: S74322; MUID: 97061201; PMID: 8905231
A; Accession: S74981
A; Status: nucleic acid sequence not shown; translation not shown
A; Molecule type: DNA
A; Residues: 1-412
A;Cross-references: UNIPROT:P73001; UNIPARC:UPI000013AF0F; EMBL:D90902; GB:AB001339; N
A; Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1996
C; Genetics:
A; Gene: gdhB
C; Superfamily: hypothetical protein b0837
 Query Match
                       14.9%; Score 362; DB 1; Length 412;
 Best Local Similarity 26.3%; Pred. No. 1.5e-17;
 Matches 120; Conservative 63; Mismatches 175; Indels
                                                         98; Gaps
          3 PLTPSQFAKAKSENFDKKVILSNLNKPHALLWGPDNQIWLTER-ATGKILR---VNPES- 57
Qy
            : | : | : : | | :
         42 PTNSVEIVQANQPEIKAVPVIDGLEHPWGMAWLPNGDILITERPGRLRIVRDGVLDPEAI 101
Db
         58 GSVKTVFQVPEIVNDADGQNGLLGFAFHPDFKNNPYIYISGTFKNPKSTDKELPNQTIIR 117
Qу
              102 AGVVAVSTVSAQQLFASQQGGLLDIALHPRFAENRFVYFT-----YSHGTQQANRTRVA 155
         118 RYTYNKSTDTLEKPVDLLAGLPSSKDHQSGRLVIGPDQKIYYTIGDQGRN--QLAYLFLP 175
Οv
                                      1 :: 1 :: :
         156 RAVFDGEKLTDWQVIFEVGQTKPGCOFFGSRLTWLPDETLLVSIGDGGNPPVELEGDFIR 215
Db
        176 NQAQHTPTQQELNGKDYHTYMGKVLRLNLDGSIPKDNPSFNG--VVSHIYTLGHRNPQGL 233
Qу
                     :::[|::|:||||::||||||
                                                       ::: |||||
         216 QQAQNRA-----SHLGKIIRINDDGTVPADNPFRNDPKAAPEVWSYGHRNIQGL 264
Db
         234 AFTP-NGKLLQSEQGPNSDDEINLIVKGGNYGWPNVAGYKDDSGYAYANYSAAANKSIKD 292
Qу
                             1:
                |: :||
         265 AYDPVTQKVWATEHGSRGGDELNLIQKGKNYGWPVVSFSKE----YSTDQPVA----- 313
Db
         293 LAQNGVKVAAGVPVTKESEWTGKNFVPPLKTLYTVQDTYNYNDPTCGEMTYICWPTVAPS 352
Qу
                                  1 11:
                       | | | :
Db
         353 SAYVYKGGKKAITGWENTLLVPSLKRGVIFRIKLDPTYSTTYDDAVPMFKSNNRYRDVIA 412
Qу
                                              : ::
               : | | : | : | :
                                | | ::||
         336 GLTIYNGDRH--PEWQGTIFAGGLVDRGIRHLRLDENNQIIDETTISI---GQRVRDVRQ 390
         413 SPDGNVLYVLTDTAGNVQKDDGSVTNTLENPGSLIK 448
Qу
             : | | | : :
         391 GPDGHV-YVLTD------QNNGQLLR 409
Db
```